

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S54	0	10/671995 and linker adj10 complexity	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 11:00
S53	0	10/671995 and low adj complexity	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 11:00
S35	1	10/671995	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 11:00
S52	1542	Woodbury.in. or devos.in. or irani.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:59
S51	14	S45 adj10 (streptavidin or avidin or protein adj (a or G) or antibody or enzyme) and S45 adj10 fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:59
S50	366	S45 adj10 (streptavidin or avidin or protein adj (a or G) or antibody or enzyme)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:59
S47	153	S45 adj10 (streptavidin or avidin or protein adj (a or G))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:59
S49	1	S45 and 10/485828	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:58
S48	0	S46 and 10/485828	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:58

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S46	209	S45 adj25 (streptavidin or avidin or protein adj (a or G))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:57
S45	4937	(au or metal or gold) adj binding	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:56
S44	0	au and 08/920407	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:46
S43	0	ag and 08/920407	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:46
S42	0	gold and 08/920407	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:46
S41	0	gold adj binding adj domain and 08/920407	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:46
S40	15	gold adj binding adj domain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:46
S28	2098	piezoelectric adj3 sensor.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:45
S39	195	biosensor adj10 gold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/06 10:44
S38	1	10/671995 and gold same resonance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:44

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S9	4	biosensor.ti. same gold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/06 10:44
S37	1	10/671995 and gold same resonance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:43
S36	1	10/671995 and gold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 10:43
S5	1	10/671995 and gold same resonance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/06 10:43
S4	1	10/671995 and gold and biosensor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/06 10:43
S3	1	10/671995 and gold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/06 10:43
S2	1	10/671995	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/06 10:43

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L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:429307 CAPLUS
DOCUMENT NUMBER: 142:477111
TITLE: Recombinant fusion proteins containing high
affinity gold binding peptide
(GBP) and applications thereof, particularly, to
construct biosensors
INVENTOR(S): Woodbury, Richard G.; Devos, Theo;
Irani, Meher
PATENT ASSIGNEE(S): Biohesion Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 45 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2005106625	A1	20050519	US 2003-671995	20030926
PRIORITY APPLN. INFO.:			US 2003-671995	20030926

AB The present invention provides a method to firmly attach any polypeptide to a gold surface regardless of its intrinsic gold-binding properties. The method describes the production of recombinant fusion proteins consisting of polypeptides of interest and a high affinity gold binding peptide (GBP) consisting of 1 to 7 repeats of a unique amino acid sequence. By this method, many biol. active polypeptides lacking intrinsic gold-binding properties can be firmly attached to gold surfaces. The disclosure includes evidence that fusion proteins containing the gold-binding sequences provide superior stability and activity compared to similar mols. lacking the tag when used to construct biosensors. The invention provides a method that is a significant improvement over existing chemical and phys. adsorption protocols to attach polypeptides to gold and, therefore, can provide benefits to many applications utilizing gold. The invention produces recombinant fusion proteins consisting of a unique GBP consisting of 1 to 7 repeats of the 14 amino acid sequence, Met-His-Gly-Lys-Thr-Gln-Ala-Thr-Ser-Gly-Thr-Ile-Gln-Ser, and any desired polypeptide specifying activity, binding such fusion protein to a gold surface thereby introducing functionality to the surface. No linking chemical is required to attach desired polypeptides to GBP.

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(FILE 'HOME' ENTERED AT 11:03:55 ON 06 OCT 2006)

FILE 'MEDLINE, CAPLUS, SCISEARCH' ENTERED AT 11:04:19 ON 06 OCT 2006

L1 3644 S (GOLD OR AU) (5A) BINDING
L2 16 S L1 (S) FUSION
L3 12 DUP REM L2 (4 DUPLICATES REMOVED)
L4 7 S L3 AND PY<=2003
L5 0 S L4 AND (NUCLEIC)
L6 0 S L4 AND HIS
L7 0 S L4 AND STREPTAVIDIN
L8 0 S L4 AND AVIDIN
L9 5344 S (GOLD OR AU) (2A) (PEPTIDE OR DOMAIN OR PROTEIN)
L10 19 S L9 (S) FUSION
L11 15 DUP REM L10 (4 DUPLICATES REMOVED)
L12 14 S L9 (10A) FUSION
L13 6 S L12 AND PY<=2003

L14 8500 S WOODBURY?/AU OR DEVOS?/AU OR IRANI?/AU
L15 1 S L14 AND L11

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